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ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD

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 N. Fuhr , C. Buckley
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Based on the binary independence indexing model, we apply three new concepts for probabilistic document indexing from relevance feedback data: Abstraction from specific terms and documents, which overcomes the restriction of limited relevance information for parameter estimation. Flexibility of the representation, which allows

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 Ben Bradshaw

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This paper describes an approach to image retrieval based on the underlying semantics of images. To extract these semantics a hierarchical, probabilistic approach is proposed. The labels that are extracted in this case are man-made, natural, inside and outside. The hierarchical framework combines class likelihood probability estimates across a number of levels to form a posterior estimate of the probability of class membership. Unlike previous work in this field, the proposed algorithm can de ...

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ACM Transactions on Information Systems (TOIS) January 1995
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This article examines and extends the logical models of information retrieval in the context of probability theory. The fundamental notions of term weights and relevance are given probabilistic interpretations. A unified framework is developed for modeling the retrieval process with probabilistic inference. This new approach provides a common conceptual and mathematical basis for many retrieval models, such as the Boolean, fuzzy set, vector space, and conventional probabilistic models. With ...

8 An evaluation of phrasal and clustered representations on a text 98%**4** categorization task

David D. Lewis

**Proceedings of the 15th annual international ACM SIGIR
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Syntactic phrase indexing and term clustering have been widely explored as text representation techniques for text retrieval. In this paper we study the properties of phrasal and clustered indexing languages on a text categorization task, enabling us to study their properties in isolation from query interpretation issues. We show that optimal effectiveness occurs when using only a small proportion of the indexing terms available, and that effectiveness peaks at a higher feature set size and ...

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**The VLDB Journal — The International Journal on Very
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Though there has been extensive work on multimedia databases in the
last few years, there is no prevailing notion of a multimedia view, nor

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Automatically created maps of concepts improve navigation in large collections of text documents. My research in progress on leveraging navigation by interactively providing the ability to modify the maps themselves has led me to believe that this functionality increases responsiveness to the user and makes searching more effective. I explored both what adaptive features users perceive to be most helpful and the overall effect of adaptation on achieving information seeking goals.
- 8 Semantic based image retrieval: a probabilistic approach 98%
4 Ben Bradshaw
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